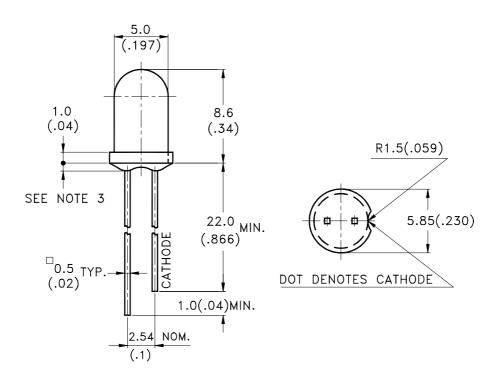
LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Features

- * High efficiency.
- * Low power consumption.
- * CMOS/MOS compatible.
- * TTL compatible.

Package Dimensions



| Part No. | Lens | Source Color |
|-------------|----------------|--------------|
| LTL-307EJLC | White Diffused | Hi-Eff.Red |

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specifications are subject to change without notice.

Part No.: LTL-307EJLC Page: of 4

LITEON LITE-ON ELECTRONICS, INC.

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Absolute Maximum Ratings at TA=25℃

| Parameter | Maximum Rating U1 | | | |
|---|---------------------|----|--|--|
| Power Dissipation Tamb ≤ 90°C | 20 | | | |
| Forward Current | 7 | mA | | |
| Forward Surge Current (10μ sec pulse) | 500 | mA | | |
| Reverse Voltage | 5 | V | | |
| Operating Temperature Range | -55°C to + 100°C | | | |
| Storage Temperature Range | -55°C to + 100°C | | | |
| Lead Soldering Temperature [1.6mm(.063") From Body] | 260°C for 5 Seconds | | | |

Part No.: LTL-307EJLC Page: 2 of 4



LITEON LITE-ON ELECTRONICS, INC.

Property of Lite-On Only

Electrical / Optical Characteristics at TA=25°C

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Test Condition |
|--------------------------|------------------|------|------|------|---------|---------------------------|
| Luminous Intensity | Iv | 0.5 | 1.7 | | mcd | $I_F = 2mA$ Note 1,4 |
| Viewing Angle | 2	heta 1/2 | | 50 | | deg | Note 2 (Fig.6) |
| Peak Emission Wavelength | λР | | 635 | | nm | Measurement @Peak (Fig.1) |
| Dominant Wavelength | λd | | 623 | | nm | Note 3 |
| Spectral Line Half-Width | Δλ | | 40 | | nm | |
| Forward Voltage | V_{F} | | 1.7 | 2.2 | V | $I_F = 2mA$ |
| Reverse Current | I_R | | | 10 | μ A | $V_R = 5V$ |

- Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) eye-response curve.
 - 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
 - 3. The dominant wavelength, $\,\lambda_{\,d}$ is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
 - 4. The Iv guarantee should be added $\pm 15\%$.

| Part No.: LTL-307EJLC | Page: | 3 | of | 4 | |
|-----------------------|-------|---|----|---|--|
| Tall 100. ETE 50/E6BC | rage. | 5 | O1 | • | |

Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

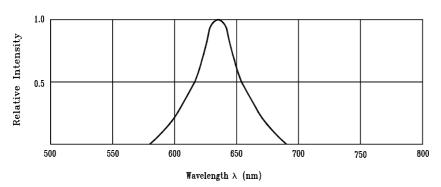
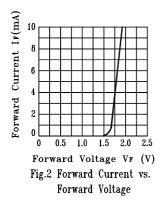
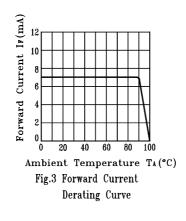
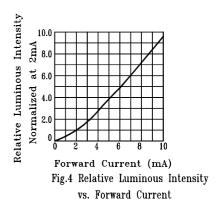
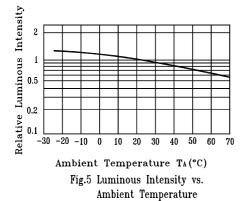


Fig.1 Relative Intensity vs. Wavelength









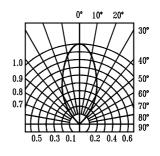


Fig.6 Spatial Distribution

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